



Attorney Docket No.: 1018-00

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APR 03 2002

In re Application of Henry Daniell

Serial No.: 09/079,640

Filed: May 15, 1998

TECH CENTER 1600/2900

For: UNIVERSAL CHLOROPLAST INTEGRATION AND EXPRESSION VECTOR,
METHOD OF USE AND TRANSFORMED PLANTSCOMMISSIONER FOR PATENTS
Washington, DC 20231

Sir:

Transmitted herewith is an Amendment in the above-identified application.

- Small entity status of this application under 37 CFR §1.9 and §1.27 has been established by a verified statement previously submitted.
- A verified statement to establish small entity status under 37 CFR §1.9 and §1.27 is enclosed.
- No additional fee is required.

The fee has been calculated as shown below:

(Col. 1)

(Col. 2) (Col. 3)

SMALL ENTITY

OTHER THAN
SMALL ENTITY

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PRE- VIOUSLY PAID FOR	PRESENT EXTRA
TOTAL	31	-	** 20 =
INDEP.	17	-	16 = 1
First presentation of multiple dependent claim			

RATE	ADD'L FEE
x 9=	\$
x42=	\$42.00
+140=	\$

OR

RATE	ADD'L FEE
x18=	\$
x84=	\$
+280=	\$

TOTAL ADDITIONAL FEE \$42.00 OR \$ _____

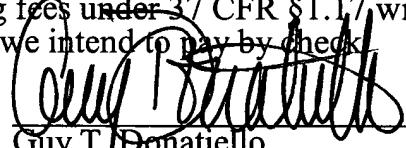
* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

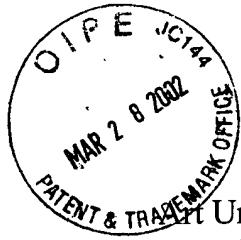
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

- Please charge my Deposit Account No. 13-3405 in the amount of \$_____.
A duplicate copy of this sheet is enclosed.
- A check in the amount of \$42.00 is attached.
- The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 13-3405. A duplicate copy of this sheet is enclosed.
 - Any filing fees under 37 CFR §1.16 for the presentation of extra claims.
 - Any patent application processing fees under 37 CFR §1.17 with the exception of the Issue Fee which we intend to pay by check


Guy T. Donatiello
Reg. No. 33,167
Attorney for Applicant(s)

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1638\$

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Unit : 1638
Examiner : D. T. Fox
Serial No. : 09/079,640
Filed : May 15, 1998
Inventors : Henry Daniell
Title : UNIVERSAL CHLOROPLAST Docket: 1018-00 (922-6588P)
: INTEGRATION AND EXPRESSION
: VECTOR, METHOD OF USE AND
: TRANSFORMED PLANTS



22469

PATENT TRADEMARK OFFICE

Dated: March 20, 2002

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Commissioner for Patents
Washington, DC 20231

APR 03 2002

TECH CENTER 1600/2900

Sir:

Certificate of Mailing Under 37 CFR 1.8

For

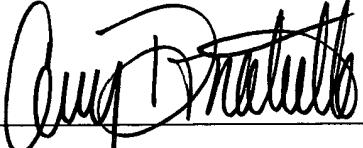
Postcard
\$55.00 check
\$42.00 check

Claim of Extension of Time for Response
Transmittal Letter, in duplicate
Amendment and Argument
Publication (Maier et al.)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231, on the date appearing below.

Name of Applicant, Assignee, Applicant's Attorney
or Registered Representative:

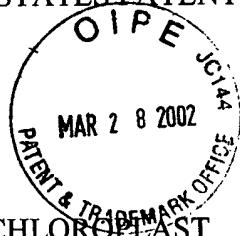
Schnader Harrison Segal & Lewis
Customer No.: 022469

By: Date: March 20, 2002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1638
Examiner : D. T. Fox
Serial No. : 09/079,640
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Title : UNIVERSAL CHLOROPLAST
: INTEGRATION AND EXPRESSION
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PATENT TRADEMARK OFFICE

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KASKE

Docket: 1018-00 (922-6588P)

Dated: March 20, 2002

AMENDMENT AND ARGUMENT

Commissioner for Patents
Washington, DC 20231

03/29/2002 SSESHE1 00000063 09079640

02 FC:202

42.00 OP

Sir:

In response to the Office Action dated November 20, 2001, Applicant hereby amends as follows:

In the Claims (clean copy as amended)

E |

4. (Twice Amended) A universal integration and expression vector competent for stably transforming the chloroplast genome of higher plant species which comprises an expression cassette which comprises, operably joined, a heterologous DNA sequence coding for a peptide of interest and control sequences positioned upstream from the 5' and downstream from the 3' ends of the coding sequence to provide expression of the coding sequence in the chloroplast genome of a target higher plant, and flanking each side of the expression cassette, chloroplast DNA sequences which originate from a plant species different from the target plant, said chloroplast sequences being conserved in all higher plants and complementary to the corresponding chloroplast sequences of the target plant, which chloroplast sequences are also competent to undergo homologous recombination with said complementary sequences, whereby stable integration of the heterologous coding sequence into the chloroplast genome of the target plant is